

COURSE DELIVERY PLAN 2024

Bachelor of Engineering (Honours) (Civil Engineering)

COURSE CODE: NHEC

CAMPUS	Footscray Park (FP)
COLLEGE	College of Sport, Health and Engineering
STUDY MODE	Full Time or Part Time
DURATION	4 years Full Time or Part Time equivalent
FEE TYPE	For information on course fees, refer to http://vu.edu.au/fees
APPLICATION METHOD	VTAC - https://vtac.edu.au Direct Application - https://gotovu.custhelp.com/app/landing
TIMETABLE	vu.edu.au/timetables
COURSE REQUIREMENTS	<p>To attain the Bachelor of Engineering (Honours) (Civil Engineering), students will be required to complete:</p> <ul style="list-style-type: none">• 384 credit points of Core studies <p>Students are required to produce documented evidence of the completion of 12 weeks professional experience.</p> <p>Accreditation: This program is accredited by Engineers Australia and graduates are eligible to apply for graduate membership.</p> <p>First Class Honours: To be eligible for completion with First Class Honours, students must achieve:</p> <ul style="list-style-type: none">• A minimum weighted average of 60% over year levels 1 to 3;• A minimum weighted average of 80% in year level 4;• An average HD grade for the final year units, NEF4101 Research Project 1 and NEF4201 Research Project 2.
FURTHER INFORMATION	Unit and course information is available from the University course search site at http://vu.edu.au/course-search or go to https://askvu.vu.edu.au or Phone VUHQ on 03 9919 6100
COURSE CHAIR	Vincent Wang
COURSE ADVICE	AskCUA



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Note: Students are required to enrol in all units for semester 1 and 2, and are not permitted to enrol in more than 48 credit points per semester as a full-time load.

Core/Elective Core (a unit that must be completed) & Elective (you have some choice in what you select).

Prerequisites A number of units within the degree have 'prerequisites'. These prerequisites must be met before enrolment in the unit is permitted. Generally these prerequisites require the successful completion of a unit or units taken at an earlier stage in the course. Students should pay particular attention to these prerequisite requirements as failure to meet these can seriously hinder progression through the course.

Date of Publication: This information is current at the publication date December 5, 2023. It is provided as information only and does not form part of a contract between any person and Victoria University.

Winter Unit Offerings:

For Winter (July 2024) please refer to the below link:

<https://www.vu.edu.au/current-students/your-course/timetables-calendars/summer-winter-school-study>

(You will need to wait for this information to be updated if it is still showing 2023)

Double Block only students in their final year or semester will be approved to Double Block and for extenuating circumstances. You are required to seek approval via AskCUA.



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YEAR 1

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF1103	Engineering and the Community	Core	1B1	12	FP	
NEF1105	Mathematics for Engineering and Science	Core	1B2	12	FP	
NEF1102	Engineering Physics 1	Core	1B3	12	FP	
NEF1104	Problem Solving for Engineers	Core	1B4	12	FP	
NEF1201	Engineering Mathematics 2	Core	2B1	12	FP	NEF1105
NEF1205	Engineering Fundamentals	Core	2B2	12	FP	
NEF1202	Engineering Physics 2	Core	2B3	12	FP	NEF1102
NEF1204	Introduction to Engineering Design	Core	2B4	12	FP	

Students commencing in **Semester 2, Block 1 (2B1)** should enrol as per the below sequence pattern:

- 2B1 - NEF1103 - Engineering and the Community
- 2B2 - NEF1105 - Mathematics for Engineering and Science
- 2B3 - NEF1102 - Engineering Physics 1
- 2B4 - NEF1204 - Introduction to Engineering Design

In 2025, you enrol:

- 1B1 – NEF1201 - Engineering Mathematics 2
- 1B2 – NEF1202 - Engineering Physics 2
- 1B3 – NEF1205 - Engineering Fundamentals
- 1B4 – NEF1104 - Problem Solving for Engineers

Students commencing in **Semester 2, Block 3 (2B3)** should enrol as per the below sequence pattern:

- NEF1102 - Engineering Physics 1
- NEF1204 - Introduction to Engineering Design

In 2025, you enrol:

- NEF1103 - Engineering and the Community
- NEF1105 - Mathematics for Engineering and Science
- NEF1204 - Introduction to Engineering Design
- NEF1104 - Problem Solving for Engineers

Students must adhere to the above sequence pattern when enrolling units. Pre-requisite units must also be adhered to when requesting a manual enrolment.



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YEAR 2

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEC2102	Solid Mechanics	Core	1B1, 2B1	12	FP	NEF1102, NEF1205, NEM1001
NEF2101	Fluid Mechanics 1	Core	1B2	12	FP	NEM1001
NEC2104	Engineering Surveying	Core	1B3	12	FP	NEF1201; or
NEC2103	Engineering Materials & Construction	Core	1B4	12	FP	
NEC2204	Highway Engineering	Core	2B1	12	FP	NEF2101
NEC2202	Geomechanics	Core	2B2	12	FP	NEC2102
NEC2201	Introduction to Structural Engineering Design	Core	2B3	12	FP	NEC2102
NEC2203	Hydraulics	Core	2B4	12	FP	NEC2104

YEAR 3

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF3101	Project Management	Core	1B1	12	FP	Completion of at least 96 Credit Points
NEC3101	Structural Analysis	Core	1B2	12	FP	NEC2102
NEC3102	Geotechnical Engineering	Core	1B3	12	FP	NEC2202
NEC3103	Hydrology and Water Resources	Core	1B4	12	FP	NEC2203
NEC3201	Hydraulic Engineering	Core	2B1	12	FP	NEC2203
NEC3203	Structural Engineering Design 1	Core	2B2	12	FP	NEC2201
NEC3202	Civil Engineering Design 1	Core	2B3	12	FP	NEC2203, NEC2204, NEC3103, NEC3201
NEF3202	Research Methods	Core	2B4	12	FP	Completion of 192 Credit Points

Students must adhere to the above sequence pattern when enrolling units. Pre-requisite units must also be adhered to when requesting a manual enrolment.



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YEAR 4

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEC4101	Environmental Engineering 1	Core	1B1	12	FP	NEC2203; and NEC3201
NEF4105	Professional Engineering Practice	Core	1B2	12	FP	Completion of 288 credit points
NEC4102	Structural Engineering Design 2	Core	1B3	12	FP	NEC2201, NEC3203
NEF4101	Research Project 1	Core	1B4 2B4	12	FP	NEF3202 and Completion of 288 credit points
NEF4206	Advanced Engineering Design	Core	2B1	12	FP	NEF3101, Completion of 288 credit points and NEC4102
NEF4207	Engineering Applications	Core	2B2	12	FP	NEF3101, NEC3203
NEC4172	Urban Development and Transportation	Core	2B3	12	FP	NEC2204
NEF4201	Research Project 2	Core	2B4	12	FP	NEF4101

Students must adhere to the above sequence pattern when enrolling units. Pre-requisite units must also be adhered to when requesting a manual enrolment.

Before enrolling in NEF4101 Research Project 1, students must:

- Have completed NEF3202 Research Methods which includes the selection of a Capstone project.
- Have at least 288 CP.
- Not enrol in NEF3202 and NEF4101 in the same semester.
- Not enrol in NEF4101 and NEF4102 in the same semester.



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